

Claims

What is claimed is:

1. A system for remotely analyzing diagnostic information, comprising:  
one or more analysis systems for analyzing diagnostic information from one or more spin tracks, the one or more analysis systems comprising one or more analysis components; and  
one or more maintenance systems for scheduling maintenance for one or more spin tracks, based at least in part on diagnostic information from the one or more spin tracks, the one or more maintenance systems comprising one or more maintenance components.
2. The system of claim 1, further comprising:  
one or more control information systems for generating feedback and/or feed forward control information to adapt one or more processing steps performed by the one or more spin tracks, wherein the feedback control information is based at least in part on data generated by the one or more analysis systems;  
the control information system comprising one or more control information components.
3. The system of claim 1, wherein the one or more spin tracks, the one or more analysis systems, and the one or more maintenance systems are connected by one or more data communications systems.
4. The system of claim 2, wherein the one or more spin tracks, the one or more analysis systems, the one or more maintenance systems and the one or more feedback control information systems are connected by one or more data communications systems.

5. The system of claim 3, wherein one of the one or more data communications systems is the Internet.

6. The system of claim 4, wherein one of the one or more data communications systems is the Internet.

7. The system of claim 1, wherein at least one of the one or more analysis systems determines the existence of an unacceptable spin track diagnostic condition in at least one of the one or more spin tracks based upon one or more diagnostic information values differing from an acceptable value.

8. The system of claim 1, wherein at least one of the one or more maintenance systems determines the existence of an unacceptable spin track maintenance condition in at least one of the one or more spin tracks based upon one or more diagnostic information values differing from an acceptable value.

9. The system of claim 3, wherein at least one of the one or more feedback control information systems determines the existence of an unacceptable spin track fabrication condition in at least one of the one or more spin tracks based upon one or more diagnostic information values differing from an acceptable value.

10. A computer readable medium having computer executable components, comprising:

one or more analysis systems for analyzing diagnostic information associated with one or more spin tracks; and

one or more maintenance systems for scheduling routine and/or special maintenance for the one or more spin tracks.

11. The computer readable medium of claim 10, further comprising:

one or more control information systems for generating feedback control information to adapt one or more processing steps performed by the one or more spin tracks, wherein the feedback control information is based at least in part on diagnostic information generated by the one or more spin tracks.

12. A data packet adapted to be transmitted from a first computer process to a second computer process, comprising:

data related to diagnostic information collected from one or more spin tracks.

13. A data packet adapted to be transmitted from a first computer process to a second computer process, comprising:

data related to analysis performed on diagnostic information collected from one or more spin tracks.

14. A data packet adapted to be transmitted from a first computer process to a second computer process, comprising:

data related to feedback control information for controlling one or more fabrication steps in one or more spin tracks.

15. A computer readable medium having stored thereon a data structure, comprising:

a first data field containing first data related to diagnostic information collected from one or more spin tracks;

a second data field containing second data derived from the first data field, wherein the second data relates to maintenance scheduled to be performed on the one or more spin tracks.

16. The computer readable medium of claim 15, further comprising:

a third data field containing third data derived from the first data field, wherein the third data relates to feedback control information related to the analysis of the first data field.

17. The system of claim 1, wherein the diagnostic information is stored in one or more databases.

18. The system of claim 1, wherein the diagnostic information is stored in an HTML document.

19. The system of claim 1, wherein the diagnostic information is stored in an XML document.

20. The system of claim 1, wherein the diagnostic information may be queried via one or more query languages.

21. The system of claim 1, wherein one or more components of the analysis system is located locally to one or more spin tracks.

22. The system of claim 2, wherein one or more components of the analysis system is located locally to one or more spin tracks.

23. The system of claim 1, wherein one or more components of the analysis system is located remotely from one or more spin tracks.

24. The system of claim 2, wherein one or more components of the analysis system is located remotely from one or more spin tracks.

25. The system of claim 1, wherein one or more components of the analysis system are located locally to one or more spin tracks and wherein one or more components of the analysis system are located remotely from one or more spin tracks.

26. The system of claim 2, wherein one or more components of the analysis system are located locally to one or more spin tracks and wherein one or more components of the analysis system are located remotely from one or more spin tracks.

27. The system of claim 1, wherein one or more components of the maintenance system are located locally to one or more spin tracks.

28. The system of claim 2, wherein one or more components of the maintenance system are located locally to one or more spin tracks.

29. The system of claim 1, wherein one or more components of the maintenance system are located remotely from one or more spin tracks.

30. The system of claim 2, wherein one or more components of the maintenance system are located remotely from one or more spin tracks.

31. The system of claim 1, wherein one or more components of the maintenance system are located locally to one or more spin tracks and wherein one or more components of the maintenance system are located remotely from one or more spin tracks.

32. The system of claim 2, wherein one or more components of the maintenance system are located locally to one or more spin tracks and wherein one or more components of the maintenance system are located remotely from one or more spin tracks.

33. The system of claim 3, wherein one or more components of the feedback control information system are located locally to one or more spin tracks.

34. The system of claim 3, wherein one or more components of the feedback control information system are located remotely from one or more spin tracks.

35. The system of claim 3, wherein one or more components of the feedback control information system are located locally to one or more spin tracks and wherein one or more components of the feedback control information system are located remotely from one or more spin tracks.

36. A method for remotely analyzing diagnostic information comprising:  
collecting diagnostic information from one or more spin tracks;  
transmitting the diagnostic information to an analyzer *via* data communication means;  
analyzing the diagnostic information to produce analysis data related to the maintenance status of the one or more spin tracks; and  
producing maintenance schedule data for the one or more spin tracks.

37. The method of claim 36, further comprising:  
scheduling special maintenance for the one or more spin tracks.

38. The method of claim 36, further comprising:  
generating feedback control information for the one or more spin tracks.

39. The method of claim 36, further comprising:  
storing the diagnostic information;  
storing the analysis data; and  
storing the maintenance schedule data.

40. A method for remotely analyzing diagnostic information comprising:  
means for collecting diagnostic information from one or more spin tracks;

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means for transmitting the diagnostic information to an analyzer *via* data communication means;

means for analyzing the diagnostic information in the analyzer to produce analysis data related to the maintenance status of the one or more spin tracks; and

means for producing maintenance schedule data for the one or more spin tracks.

41. The method of claim 40, further comprising:

means for generating feedback control information for the one or more spin tracks.